



U.S. GEOLOGICAL SURVEY LIBRARY FIELD RECORDS COLLECTION DENVER, COLORADO

WALDEMAR LINDGREN
(1860 - 1939)

NOTES, CORRESPONDENCE, PAPERS

1882 - 1911

(5.6 linear ft. and 18 map folders)

Waldemar Lindgren was born in Kalmar, Sweden, in 1860. He graduated from the Royal Mining Academy, Germany, in 1882. Lindgren immigrated to the United States in 1883 and joined the staff of the USGS in 1884. He served with the agency for 28 years, rising to the rank of Chief Geologist before leaving to join the faculty of MIT as Head of the Geology Department, a position he held until his 1933 retirement. Lindgren was one of the great early authorities on mining engineering and economic geology. He was a founder of the journal *Economic Geology*, served as President of the Geological Society of America and the Society of Economic Geologists, and was the author of the classic textbook *Mineral Deposits*.

INVENTORY

By

Clay M. Martin
U.S. Geological Survey Field Records Collection
MS 914, Box 25046, Federal Center
Denver, CO 80225-0046
December 2011

Location of Field Notebooks: CS-4: 5-7

MISCELLANEOUS RESEARCH MATERIALS, LECTURE NOTES, AND CORRESPONDENCE. CIRCA 1882-1896.

<u>Item Number</u>	<u>Description</u>
NO-12294	<p>Expandable envelope with seven folders. Previous documentation of this material indicates that some of it may have been authored by George F. Becker:</p> <ul style="list-style-type: none"> - Folder 1. W. Lindgren. Group of seven notebook pages with geologic notes on igneous rocks of the Mayacmas Mountains, Lake, Napa, and Sonoma Counties, California. 1886. - Folder 2. W. Lindgren. Group of 14 notebook pages with geologic notes on igneous rocks in the Clear Lake and Sulphur Bank areas, Lake County, California. 1886 - Folder 3. W. Lindgren. Group of seven notebook pages with geologic notes on granites of the Steamboat Springs area, Nevada, and the coastal ranges of California. 1886. - Folder 4. W. Lindgren. Three groups of lectures notes related to principals of physics as applied to ore processing. No date. - Folder 5. W. Lindgren. Notebook page with notes on the subject of teaching as a career. No date. - Folder 6. W. Lindgren. Three groups of notebook pages with notes related to principals of physics as applied to geology, including notes on hydrothermal vein formation, comments on a paper by J.W. Judd concerning volcanoes in Scotland, and notes on "Fisher's Physics of the Earth's Crust". No date. - Folder 7. W. Lindgren. Mimeographed copy of a typed, three-page report entitled "Mine Surveying (notes on lectures by R.E. Brown)". No date.
NO-12295	<p>Expandable envelope with four folders. Previous documentation of this material indicates that some of it may have been authored by George F. Becker:</p> <ul style="list-style-type: none"> - Folder 1. Group of 116 notebook pages with notes on the "Classification of Silver Metals. No date. - Folder 2. Group of seven notebook pages with notes on the accuracy of USGS statistics for gold production in California. No date. - Folder 3. Group of 53 notebook pages with notes on silicate mineral formation. No date. - Folder 4. Three groups of notebook pages with notes on silicate mineral formation, mine timbering, and the physics of elasticity as applied to geology. No date.
NO-12296	<p>Expandable envelope with 15 folders of notebook pages with miscellaneous notes related to geology. Subject headings include "The Great Serpentine Belt", "Reflections on Glacial Erosion", "Glacial Theories", and "Memorandum on Statistics". Many groups of notes are untitled; subject matter is varied and includes physics and geometry as applied to geology; glaciology; erosional processes; the formation of wind currents; magmatic eruptions; granitic rocks in</p>

Sweden; metamorphic lithology, and the formation of siliceous igneous rocks . Previous documentation of this material indicates that some of it may have been authored by George F. Becker. Circa 1882-1892.

MISCELLANEOUS GEOLOGIC INVESTIGATIONS IN CALIFORNIA AND WASHINGTON. CIRCA 1885-1906.

- NO-12297 W. Lindgren. Notebook with geologic notes and sketches related to geologic investigations in Mono, Nevada, Placer, and Yuba Counties, California. July 1885-April 1886.
- NO-12298 W. Lindgren. Notebook with geologic notes and sketches related to geologic investigations in Pierce and King Counties, Washington, and in Alpine and Placer Counties, California. June-October 1895.
- NO-12299 J.M. Boutwell and W. Lindgren. Notebook with geologic notes and sketches related to geologic investigations in Calaveras, El Dorado, Placer, Sacramento, and Tuolumne Counties, California. July-August 1901.
- NO-12300 Field notebook with geologic notes and sketches and mine data related to geologic investigations in the western U.S. The notes are very terse, and it is uncertain if they are by Lindgren. Some notes appear to refer to mines in the Bodie and Ballarat areas, California. Date uncertain, but 1906 or later.

GEOLOGIC INVESTIGATION OF THE GOLD BELT REGION OF CALIFORNIA. 1886-1893.

- NO-12301 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Marysville 30' quadrangle and the Gold Belt region of California. Label on cover states "Gold-Belt, Preliminary Survey, Notebook 1". April-June 1886.
- NO-12302 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Label on notebook cover states "Gold-Belt, Preliminary Survey, Notebook 2". July-August 1886.
- NO-12303 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Label on cover states "Goldbelt, California, Preliminary Survey, Notebook 3". August-September 1886.
- NO-12304 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Label on cover states "Goldbelt notes, California, Preliminary Survey, Notebook 4". September 1886.

- NO-12305 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Label on notebook cover states "Goldbelt notes, California, U.S. Geological Survey, Notebook 4". September-October 1886.
- NO-12306 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Label on first page states "Goldbelt California, Notebook VI". July-November 1886.
- NO-12307 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Label on first page states "Goldbelt California". November 1886-May 1887.
- NO-12308 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Label on first page states "Goldbelt notes VIII". May-June 1887.
- NO-12309 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Label on first page states "Notebook IX, Goldbelt notes". July-August 1887.
- NO-12310 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Label on first page states "Notebook X, Goldbelt notes". September-October 1887.
- NO-12311 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Labeled "Notebook XI". March-May 1888.
- NO-12312 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Labeled "Notebook XII". May-July 1888.
- NO-12313 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Labeled "Notebook XIII". July-September 1888.
- NO-12314 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Labeled "Notebook XIV". September-October 1888.
- NO-12315 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Labeled "Notebook XV, Gold belt notes". April-September 1889.
- NO-12316 W. Lindgren. Field notebook with geologic notes and sketches related to field

- investigation of the Gold Belt region of California. Labeled "Notebook XVI, Gold belt notes". September 1889-June 1890.
- NO-12317 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Labeled "Notebook XVII, Gold belt notes". June-September 1890.
- NO-12318 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Labeled "Notebook XVIII, Goldbelt notes". September-November 1890.
- NO-12319 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Labeled "Notebook XIX, Goldbelt notes". November 1890-June 1891.
- NO-12320 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Labeled "Notebook XX, Goldbelt notes". June-August 1891.
- NO-12321 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Labeled "Notebook XXI, Goldbelt notes". August-October 1891.
- NO-12322 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. Labeled "Notebook XXII, Goldbelt notes". October-December 1891.
- NO-12323 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. June-September 1893.
- NO-12324 H.W. Turner and W. Lindgren. Expandable envelope with four groups of geologic notes and sketches related to field investigation of the Gold Belt region of California. Also included are 14 black and white photographs of geographic and geologic features. 1887.
- NO-12325 H.W. Turner and W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. August 1886-November 1887.
- NO-12326 H.W. Turner and W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Gold Belt region of California. August-September 1888.
- NO-12327 W. Lindgren. Notebook with location descriptions and latitude and longitude

coordinates for rock specimens collected in the Colfax, Placerville, Sacramento, Smartsville, and Truckee 30' quadrangles, California. Notebook title: "Catalogue. Gold Belt Collection. Placer County". No date.

- NO-12328 W. Lindgren. Notebook with location descriptions and latitude and longitude coordinates for rock specimens collected in the Bidwell Bar and Smartsville 30' quadrangles, California. Notebook title: "Catalogue. Gold Belt Collection. Yuba County". No date.
- NO-12329 W. Lindgren. Notebook with location descriptions and latitude and longitude coordinates for rock specimens collected in the Placerville, Pyramid Peak, Sacramento, and Truckee 30' quadrangles, California. Notebook title: "Catalogue. Gold Belt Collection. Eldorado County". No date.
- NO-12330 W. Lindgren. Notebook with location descriptions and rock type listings for specimens collected in the Big Tree, Markleeville, Pyramid Peak, and Sonora Pass 30' quadrangles, California-Nevada. Notebook title: "Catalogue. Gold Belt Collection. Alpine County". No date.
- NO-12331 W. Lindgren. Notebook with location descriptions and latitude and longitude coordinates for rock specimens collected in the Colfax, Downieville, Smartsville, and Truckee 30' quadrangles, California. Notebook title: "Catalogue. Gold Belt Collection. Nevada County". No date.
- NO-12332 W. Lindgren. Notebook with location descriptions and latitude and longitude coordinates for rock specimens collected in the Lodi and Sacramento 30' quadrangles, California. Notebook title: "Catalogue. Gold Belt Collection. Sacramento County". No date.
- NO-12333 W. Lindgren. Notebook with location descriptions and latitude and longitude coordinates for specimens collected in the Marysville 30' quadrangle, California. Notebook title: "Catalogue. Gold Belt Collection. Sutter County". No date.
- NO-12334 Expandable envelope with group of sheets with descriptions of rock specimens and thin sections collected in the Colfax, Markleeville, Placerville, Pyramid Peak, Sacramento, Smartsville, and Truckee 30' quadrangles, California.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 3. 1894.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 5. 1894.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 18. 1895.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 31. 1896.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 39. 1897.

GEOLOGIC INVESTIGATION OF THE COLFAX 30' QUADRANGLE, CALIFORNIA. 1887-1905.

- NO-12335 Envelope with group of sheets with listings of identification numbers, locations, and determinations for thin sections from rock specimens collected in the Colfax 30' quadrangle, California. 1905.
- NO-12336 Expandable envelope with four items:
- Group of approximately 150 3 x 5-inch index cards with descriptions of rock specimens and thin sections collected in the Colfax 30' quadrangle, California. No date.
 - Group of approximately 30 4.5 x 6.5-inch index cards with descriptions of thin sections collected in the Colfax 30' quadrangle, California. No date.
 - Group of sheets with listings of specimen numbers, locations, and determinations for rock specimens collected in the Colfax 30' quadrangle, California. No date.
- MA-03110 Map folder with seven items:
- Two copies of the Colfax 30' quadrangle, California, with annotations.
 - Five enlarged reproductions of portions of a preliminary version of the Colfax 30' quadrangle, California, sectioned and mounted on linen for field use, with geologic annotations.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 66. 1900.

GEOLOGIC INVESTIGATION OF THE PLACERVILLE 30' QUADRANGLE, CALIFORNIA. 1888-1901.

- NO-12337 Expandable envelope with three items:
- Group of approximately 50 3x5-inch index cards with descriptions of rock specimens and thin sections collected in the Placerville 30' quadrangle, California. No date.
 - Two groups of sheets with listings of specimen numbers and locations for rock specimens and thin sections collected in the Placerville 30' quadrangle, California. No date.
- NO-12338 W. Lindgren. Notebook with geologic notes and sketches and mine and claim data related to geologic investigations in the Placerville 30' quadrangle, California. 1901
- MA-03111 Map folder with four items:
- One complete and one partial enlarged reproduction of a preliminary version

of the Placerville 30' quadrangle, California, sectioned and mounted on linen for field use, with annotations.

- Sketch map in black, blue, and red ink entitled "Sketch of White-Rock Cr. & Mosquito Road, Placerville Sept. 88".
- Sketch map in blue and red ink entitled "Approx. correct sketch of S.E. corner Colfax Sheet, N.E. corner Placerville Sheet".

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 3. 1894.

GEOLOGIC INVESTIGATION OF THE SACRAMENTO QUADRANGLE, CALIFORNIA. 1889-1890.

- NO-12339 Expandable envelope with three items:
- Group of 20 3 x 5-inch index cards with descriptions of rock specimens, placer samples, and thin sections collected in the Sacramento 30' quadrangle, California. No date.
 - Two groups of sheets with listings of specimen numbers and locations for rock specimens and thin sections collected in the Sacramento 30' quadrangle, California. No date.

- MA-03112 Map folder with six items:
- Five enlarged reproductions of portions of a preliminary version of the Sacramento 30' quadrangle, California, sectioned and mounted on linen for field use, with geologic annotations.
 - Sheet with two geologic cross-section diagrams across the Sacramento 30' quadrangle, California (from the structure section sheet of USGS Geologic atlas of the United States, Folio 5), with annotations.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 5. 1894.

GEOLOGIC INVESTIGATION OF THE TRUCKEE 30' QUADRANGLE, CALIFORNIA. 1891-1893.

- NO-12340 Expandable envelope with four items:
- Group of approximately 50 4.5 x 6.5-inch index cards with descriptions of rock samples and thin sections collected in the Truckee 30' quadrangle, California. No date.
 - Group of sheets with listings of specimen numbers, locations, and determinations for rock specimens and thin sections collected in the Truckee 30' quadrangle, California. No date.

- MA-03113 Map folder with six items:
- Copy of the Truckee 30' quadrangle, California, with annotations.
 - Two partial reproductions of the Truckee 30' quadrangle, California,

with annotations.

- Three enlarged reproductions of portions of a preliminary version of the Truckee 30' quadrangle, California, sectioned and mounted on linen for field use, with geologic annotations.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 39. 1897.

GEOLOGIC INVESTIGATION OF THE MARYSVILLE 30' QUADRANGLE, CALIFORNIA. 1892.

NO-12341 W. Lindgren. Envelope with four sheets of typed data, including specimen number, location, and latitude and longitude, for rock specimens collected in the Marysville 30' quadrangle, California.

MA-03114 Map folder with three items:

- Paper reproduction of the Marysville 30' quadrangle, California, enlarged to a scale of 1:62,500, sectioned and mounted on linen for field use, with minor geologic annotations.
- Two paper reproductions of portions of the Marysville 30' quadrangle, California, enlarged to a scale of 1:62,500, sectioned and mounted on linen for field use, with geologic annotations.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 17. 1895.

GEOLOGIC INVESTIGATION OF THE BANNER HILL, GRASS VALLEY, AND NEVADA CITY AREAS, NEVADA COUNTY, CALIFORNIA. 1893-1894.

NO-12342 Expandable envelope with two folders:

- Folder 1. Approximately 180 4.5 x 6.5-inch index cards with descriptions of rock specimens and thin sections collected in the Banner Hill, Grass Valley, and Nevada City areas, Nevada County, California. No date.
- Folder 2. Group of sheets with listings of specimen numbers and locations for rock specimens and thin sections collected in the Banner Hill, Grass Valley, and Nevada City areas, Nevada County, California. No date.

MA-03115 Map folder with eight items:

- Copy of the Banner Hill Special Map, California (scale 14,400), with geologic and claim boundary annotations.
- Copy of the Nevada City Special Map, California (scale 14,400), with geologic annotations.
- Copy of the Grass Valley Special Map, California (scale 14,400), with geologic annotations.
- Sketch map of surface and underground mine workings in the Maryland and

- Maslin Mine areas, Grass Valley, Nevada County, California.
- Sketch map of surface and underground mine workings in the Maryland and Schofield Mine areas, Grass Valley, Nevada County, California.
- Sketch map of surface and underground mine workings in the Maryland and Idaho Mine areas, Grass Valley, Nevada County, California.
- Map of the Odin Drift Mine, Nevada County, California. 1893.
- Folder with miscellaneous notes and memoranda, circa 1945, related to the history and disposition of the maps in this folder.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 29. 1896.

Published as: U.S. Geological Survey. Seventeenth annual report. 1896.

GEOLOGIC INVESTIGATION OF THE PYRAMID PEAK 30' QUADRANGLE, CALIFORNIA. 1894.

- NO-12343 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Pyramid Peak 30' quadrangle, California. July-September 1894.
- NO-12344 W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Pyramid Peak 30' quadrangle, California. September-November 1894.
- NO-12345 H.C. Hoover and W. Lindgren. Field notebook with geologic notes and sketches related to field investigation of the Pyramid Peak 30' quadrangle, California. Future U.S. President Herbert Clark Hoover was a field assistant for Lindgren while on summer break from Stanford University. July-August 1894.
- NO-12346 Envelope with two facsimile reproductions of H.C. Hoover's 1894 USGS field notebook (NO-12345), commissioned by the 96th U.S. Congress in recognition of the 50th anniversary of Hoover's inauguration as President of the United States. The introductory text quotes U.S. Senate Resolution 114 (April 9-10, 1979): "Resolved. That there shall be printed as a Senate document field notebooks prepared by Herbert C. Hoover in connection with the Geological Atlas of the United States, Folio 31, Pyramid Peak Folio, California, in such style and form as may be directed by the Joint Committee on Printing". 1979.
- NO-12347 Expandable envelope with four items:
 - Group of approximately 50 4.5 x 6.5-inch index cards with descriptions of rock samples and thin sections collected in the Pyramid Peak 30' quadrangle, California. No date.
 - Group of sheets with listings of specimen numbers, locations, and determinations for rock specimens and thin sections collected in the Pyramid Peak 30' quadrangle, California. No date.

- MA-03116 Map folder with seven items:
- Two preliminary copies of the economic geology sheet for USGS Geologic atlas of the United States, Folio 31, with annotations.
 - Three enlarged reproductions of portions of a preliminary version of the Pyramid Peak 30' quadrangle, California, sectioned and mounted on linen for field use, with geologic annotations.
 - Two sketch maps showing geology in the Wiley-Sopiago Creek area, Pyramid Peak 30' quadrangle, California.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 31. 1896.

GEOLOGIC INVESTIGATION OF THE BOISE AND IDAHO BASIN 30' QUADRANGLES, IDAHO. 1896.

- NO-12348 W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations in the Boise 30' quadrangle and vicinity, Idaho. July-September 1896.
- NO-12349 W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations in the Boise 30' quadrangle and vicinity, Idaho. September-October 1896.
- NO-12350 E.C.E. Lord and W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations in the Boise 30' quadrangle and vicinity, Idaho. July-October 1896.
- NO-12351 Expandable envelope with four items:
- Group of approximately 30 4.5 x 6.5-inch index cards with descriptions of rock samples and thin sections collected in the Boise and Idaho Basin 30' quadrangles, Idaho. No date.
 - Three groups of sheets with listings of specimen numbers, locations, and determinations for rock specimens and thin sections collected in the Boise and Idaho Basin 30' quadrangles, Idaho. No date.
- MA-03117 Map folder with six items:
- Copy of the Boise 30' quadrangle, Idaho, with annotations.
 - Copy of the Idaho Basin 30' quadrangle, Idaho, with annotations.
 - Four enlarged reproductions of portions of a preliminary version of the Boise 30' quadrangle, Idaho, sectioned and mounted on linen for field use, with geologic annotations.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 45. 1898.

GEOLOGIC INVESTIGATION OF THE SILVER CROWN MINING DISTRICT, LARAMIE COUNTY, WYOMING. 1896.

- NO-12352 W. Lindgren. Notebook with geologic notes and sketches and mine and claim data related to geologic investigations in the Silver Crown Mining District, Wyoming. October-November 1896.

Published as: U.S. Geological Survey. Twentieth annual report. 1900.

GEOLOGIC INVESTIGATION OF THE CHIRICAHUA MOUNTAINS, COCHISE COUNTY, ARIZONA. 1897.

- NO-12353 W. Lindgren. Field notebook with geologic notes and sketches and mine and claim data related to geologic investigations in the Chiricahua Mountains, Arizona. October-November 1897.
- NO-12354 F.C. Schrader and W. Lindgren. Field notebook with geologic notes and sketches and mine, claim, and mapping survey data related to geologic investigations in the Chiricahua Mountains, Arizona. October-November 1897.

GEOLOGIC INVESTIGATION OF THE SILVER CITY AND NAMPA 30' QUADRANGLES, IDAHO. 1897-1899.

- NO-12355 W. Lindgren. Field notebook with geologic notes and sketches and mine and claim data related to geologic investigations in the Silver City 30' quadrangle, Idaho. July-August 1897.
- NO-12356 W. Lindgren. Field notebook with geologic notes and sketches and mine and claim data related to geologic investigations in the Silver City 30' quadrangle, Idaho. August-October 1897.
- NO-12357 F.C. Schrader and W. Lindgren. Field notebook with geologic notes and sketches and mine and claim data related to geologic investigations in the Silver City 30' quadrangle, Idaho. Also included are nine pasted-in sections of the Silver City 30' quadrangle, some with annotations. July-August 1897.
- NO-12358 F.C. Schrader and W. Lindgren. Field notebook with geologic notes and sketches and mine and claim data related to geologic investigations in the Silver City 30' quadrangle, Idaho. August-September 1897.
- NO-12359 F.C. Schrader and W. Lindgren. Field notebook with geologic notes and sketches and mine and claim data related to geologic investigations in the Silver City 30' quadrangle, Idaho. September-October 1897.

NO-12360 N.F. Drake and W. Lindgren. Field notebook with geologic notes and sketches and mine and claim data related to geologic investigations in the Silver City 30' quadrangle, Idaho. Also included are nine pasted-in sections of the Silver City 30' quadrangle. July-September 1897.

NO-12361 Envelope with one original and one photocopy of a document entitled "Catalog of the Collection from the Silver City and Nampa Quads. Idaho. W. Lindgren. Geologist." The catalog includes sample numbers, locations, and descriptions for specimens collected during field work in the Silver City and Nampa 30' quadrangles, Idaho-Oregon. Also included is some data related to specimens collected in the De Lamar 30' quadrangle, Idaho. 1897.

NO-12362 Envelope with 15 pages of notes related to microscopic thin section studies of rock samples from the Silver City 30' quadrangle, Idaho. 1899.

MA-03118 Map folder with four items:

- Three enlarged reproductions of portions of a preliminary version of the Silver City 30' quadrangle, Idaho, sectioned and mounted on linen for field use, with geologic annotations.
- Enlarged reproduction of a preliminary version of the Nampa 30' quadrangle, Idaho-Oregon, sectioned and mounted on linen for field use, with annotations.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 103. 1904.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 104. 1904.

GEOLOGIC INVESTIGATION OF THE HAILEY AND WOOD RIVER MINING DISTRICTS, BLAINE COUNTY, IDAHO. 1898.

NO-12363 W. Lindgren. Field notebook with geologic notes and sketches and mine and claim data related to geologic investigations in the Hailey and Wood River Mining Districts, Idaho. August-September 1898.

NO-12364 W.A. Prichard and W. Lindgren. Field notebook with geologic notes and sketches and mine and claim data related to geologic investigations in the Hailey and Wood River Mining Districts, Idaho. July-September 1898.

Published as: U.S. Geological Survey. Twentieth annual report. 1900.

Published as: Science. Vol. 11. No. 270. 1900.

**GEOLOGICAL RECONNAISSANCE ACROSS THE BITTERROOT
RANGE AND CLEARWATER MOUNTAINS, MONTANA AND IDAHO.
1899.**

- NO-12365 W. Lindgren. Field notebook with geologic notes and sketches and mine and claim data related to geologic investigations in the Bitterroot Range, Montana-Idaho. July-September 1899.
- NO-12366 W. Lindgren. Field notebook with geologic notes and sketches and mine and claim data related to geologic investigations in the Lower Clearwater region, Idaho. September-October 1899.
- NO-12367 H.R. Johnson and W. Lindgren. Field notebook with geologic notes and sketches and mine and claim data related to geologic investigations in the Bitterroot Range and Clearwater Mountains region, Montana-Idaho. July-October 1899.
- NO-12368 Expandable envelope with two items:
- Group of approximately 31 4.5 x 6.5-inch index cards with descriptions of rock samples and thin sections collected in the Bitterroot Range, Montana-Idaho. 1899.
 - Group of sheets with listings of specimen numbers and locations for rock specimens and thin sections collected in the Truckee 30' quadrangle, Idaho. No date.

Published as: U.S. Geological Survey. Professional paper 27. 1904.

**GEOLOGIC INVESTIGATION OF THE EASTERN OREGON GOLD
BELT. 1900.**

- NO-12369 W. Lindgren. Field notebook with geologic notes and sketches and mine and claim data related to geologic investigations in Baker and Union Counties, Oregon. March-August 1900.
- NO-12370 W. Lindgren. Field notebook with geologic notes and sketches and mine and claim data related to geologic investigations in Grant County, Oregon. September-October 1900.
- NO-12371 W. Lindgren. Field notebook with geologic notes and sketches and mine and claim data related to geologic investigations in Baker County, Oregon. Also included are two loose sheets of notes. October-November 1900.
- NO-12372 Expandable envelope with two items:
- Group of approximately 90 4.5 x 6.5-inch index cards with locations and

descriptions of rock samples and thin sections collected in the Eastern Oregon Gold Belt. 1900.

- Group of sheets with listings of specimen numbers and locations for rock specimens and thin sections collected in the Eastern Oregon Gold Belt. 1900.

Published as: U.S. Geological Survey. Twenty-second annual report. 1901.

GEOLOGIC INVESTIGATION OF AURIFEROUS GRAVELS IN THE SIERRA NEVADA, CALIFORNIA. 1901-1902.

- NO-12373 W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations of auriferous gravels in Butte, El Dorado, Placer, and Tuolumne Counties, California. July-August 1901.
- NO-12374 W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations of auriferous gravels in Butte, Calaveras, Lassen, Mariposa, Nevada, Placer, Plumas, Stanislaus, and Tuolumne Counties, California. August-October 1901.
- NO-12375 W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations of auriferous gravels in Nevada, Placer, and Shasta Counties, California. September-October 1902.

Published as: U.S. Geological Survey. Professional paper 73. 1911.

GEOLOGIC INVESTIGATION OF THE CLIFTON 30' QUADRANGLE, ARIZONA. 1901-1902.

- NO-12376 W. Lindgren. Notebook with geologic notes and sketches related to geologic investigations in the Clifton 30' quadrangle. October 1901-January 1902.
- NO-12377 W. Lindgren. Notebook with geologic notes and sketches and mine data related to geologic investigations in the Clifton 30' quadrangle. January-March 1902.
- NO-12378 W. Lindgren. Notebook with geologic notes and sketches and mine data related to geologic investigations in the Clifton 30' quadrangle. March-May 1902.
- NO-12379 J.M. Boutwell and W. Lindgren. Notebook with geologic notes and sketches and mine data related to geologic investigations in the Clifton 30' quadrangle. Circa December 1901-February 1902.
- NO-12380 Expandable envelope with two items:
 - Group of approximately 200 4.5 x 6.5-inch index cards with descriptions of

rock samples and thin sections collected in the Clifton 30' quadrangle, Arizona. No date.

- Group of sheets with listings of specimen numbers, locations, and determinations for rock specimens and thin sections collected in the Clifton 30' quadrangle, Arizona. No date.

MA-03119 Map folder with eight items:

- Six enlarged reproductions of portions of a preliminary version of the Clifton 30' quadrangle, Arizona, sectioned and mounted on linen for field use, with geologic annotations.
- Reproduction of the USGS Special Map Morenci, Arizona (scale approximately 1:12,000), mounted on linen for field use, with annotations.
- Reproduction of the USGS Special Map Shannon Mountain, Arizona (scale approximately 1:20,000), mounted on linen for field use, with annotations.

Published as: U.S. Geological Survey. Bulletin 213. 1903.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 129. 1905.

Published as: U.S. Geological Survey. Professional paper 43. 1905.

Published as: U.S. Geological Survey. Circular 262. 1905.

GEOLOGIC INVESTIGATION OF THE CRIPPLE CREEK MINING DISTRICT, COLORADO. 1903-1904.

NO-12381 W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations in the Cripple Creek Mining District, Colorado. June-July 1903.

NO-12382 W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations in the Cripple Creek Mining District, Colorado. February-March 1904.

NO-12383 W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations in the Cripple Creek Mining District, Colorado. March-April 1904.

NO-12384 L.C. Graton and W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations in the Cripple Creek Mining District, Colorado. June-July 1903.

NO-12385 L.C. Graton and W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations in the Cripple Creek Mining District, Colorado. August-September 1903.

- NO-12386 L.C. Graton and W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations in the Cripple Creek Mining District, Colorado. September-October 1903.
- NO-12387 L.C. Graton and W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations in the Cripple Creek Mining District, Colorado. 1903.
- NO-12388 L.C. Graton and W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations in the Cripple Creek Mining District, Colorado. July 1903-February 1904.
- NO-12389 L.C. Graton and W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations in the Cripple Creek Mining District, Colorado. Also included are seven sheets in acetate sleeves with sketch maps of mines. February-April 1904.
- NO-12390 L.C. Graton and W. Lindgren. Field notebook with tabulations of barometric pressure, weather, and underground air quality recorded during investigations in the Cripple Creek Mining District, Colorado. April-December 1904.
- NO-12391 Expandable envelope with group of sheets with listings of specimen numbers, locations, and determinations for rock specimens and thin sections collected in the Cripple Creek Mining District, Colorado. 1903-1904.

Published as: U.S. Geological Survey. Bulletin 254. 1904.

Published as: U.S. Geological Survey. Professional paper 54. 1906.

MISCELLANEOUS GEOLOGIC INVESTIGATIONS IN IDAHO, OREGON AND WESTERN MONTANA. CIRCA 1904.

- MA-03120 Map folder with 18 items:
- Copy of the Camas Prairie 30' quadrangle, Idaho, with annotations.
 - Copy of the Mountain Home 30' quadrangle, Idaho, with annotations.
 - Copy of the Sisuka 30' quadrangle, Idaho, with annotations.
 - Copy of the Squaw Creek 30' quadrangle, Idaho, with annotations.
 - Copy of the Hamilton 30' quadrangle, Montana-Idaho, with annotations.
 - Sheet with enlarged (to a scale of 1:90,000) reproduction of the Baker City 30' quadrangle, Oregon, with annotations.
 - Copy of the Weiser 30' quadrangle, Oregon, with annotations.
 - Geologic sketch map of the Weiser River-Cuddy Mountains area, Idaho.
 - Geologic sketch map of the Clearwater River drainage in the Wierpe-Kamiah-Harpster area, Idaho.

- Enlarged reproduction of the southwest portion of the Hailey 30' quadrangle, Idaho, mounted on linen for field use, with annotations.
- Enlarged reproduction of the southwest portion of the Idaho Basin 30' quadrangle, Idaho, with annotations.
- Topographic map of the Bitterroot Range-Clearwater River area, Montana-Idaho (scale approximately 1:375,000), with annotations.
- Field map composed of portions of the Boise, Garden Valley, Idaho City, and Squaw Creek 30' quadrangles, Idaho, mounted on linen, with annotations.
- Copy (in three pieces) of a map entitled "Mining Map of Eastern Oregon", scale approximately 1:220,000, by John Hagel, with annotations. 1900.
- Two sheets with stratigraphic section diagrams showing the geology of artesian wells in the Snake River Valley, Idaho.

GEOLOGIC INVESTIGATION OF THE CARSON 30' QUADRANGLE, NEVADA. 1905.

- MA-03121 Map folder with three items:
- Two copies of the Carson 30' quadrangle, Nevada, with annotations.
 - Enlarged reproduction of a preliminary version of the Carson 30' quadrangle, Nevada, sectioned and mounted on linen for field use, with annotations.

GEOLOGIC INVESTIGATION OF THE JEROME 30' QUADRANGLE, ARIZONA. 1905.

- MA-03122 Map folder with copy of the Jerome 30' quadrangle, Arizona, sectioned and mounted on linen for field use, with geologic annotations. Note in the bottom margin states: "Geol. Notes W. Lindgren 1905".

Published as: U.S. Geological Survey. Bulletin 782. 1926.

GEOLOGIC INVESTIGATION OF THE SIERRAVILLE 30' QUADRANGLE, CALIFORNIA. 1905.

- MA-03123 Map folder with two copies of the Sierraville 30' quadrangle, California, with geologic annotations.

MISCELLANEOUS GEOLOGIC INVESTIGATIONS IN COLORADO, NEVADA, NEW MEXICO, AND CALIFORNIA. 1905-1908.

- NO-12392 W. Lindgren. Field notebook with geologic notes and sketches and mine data

related to geologic investigations in New Mexico, primarily in the Santa Fe, Cerrillos, Taos, Socorro, and Hachita areas. June-October 1905.

- NO-12393 W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations in New Mexico, primarily in the Granite Gap, Steins Peak, and Animas Valley areas, Hidalgo County and the Organ Mountains area, Dona Ana County. October 1905.
- NO-12394 W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations in the Nederland, Eldora, Caribou, Idaho Springs, Georgetown, and Kelly areas, Colorado; the Tonopah and Goldfield areas, Nevada, and the Glorieta, La Cueva Creek, Spanish Creek, and Silver City areas, New Mexico. June 1906-May 1907.
- NO-12395 W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations in the Globe area, Arizona; the Clear Creek, Canon City, Sedalia, Evergreen, Salida, Red Gulch, and Cotopaxi areas, Colorado; the San Francisco and Beaver Lake Mining Districts, Utah; the Pioche, Lyons, and Spring Mountain areas, Nevada; and the Cima Dome, Yuba River, and Brownsville areas, California. August 1907-April 1908.
- NO-12396 W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigations in the Aspen Mining District, Colorado and the Rawhide Mining District, Nevada. Also included are three sheets with typed notes on the Yampa Hot Springs, Garfield County, Colorado, and the Poncha Hot Springs, Fremont County, Colorado. April-October 1908.
- NO-12397 Expandable envelope with two items:
- Sketch map of mountain ranges and mining districts in the Las Vegas area, Nevada, and adjacent areas in California. No date.
 - Copy of a six-page geology and mining engineering report by W.H. Homes on the Lost Bullion Spanish Mine, Grant County, New Mexico. 1906.
- MA-03124 Map folder with two items:
- Copy of the San Pedro 30' quadrangle, New Mexico, with annotations. 1905.
 - Copy of the Santa Fe 30' quadrangle, New Mexico, with annotations. 1905.

GEOLOGIC INVESTIGATION OF THE DAHLONEGA AREA, LUMPKIN COUNTY, GEORGIA. 1906.

- NO-12398 W. Lindgren. Field notebook with geologic notes and sketches and mine data related to geologic investigation of gold mines in the Dahlonega area, Georgia. October 1906.
- NO-12399 Envelope with 13 4.5 x 6.5-inch index cards with descriptions of

rock samples and thin sections collected in the Dahlonga 30' quadrangle, Georgia. No date.

Published as: U.S. Geological Survey. Bulletin 293. 1906.

MISCELLANEOUS GEOLOGIC INVESTIGATIONS IN SWEDEN AND THE UNITED STATES. 1910-1911.

NO-12400 W. Lindgren. Field notebook with geologic notes and sketches and mine data collected during a trip to Sweden, July-September 1910. Also included are notes on the Leadville Mining District, Colorado, and the Deadwood Mining District, South Dakota. September-October 1911.

GEOLOGIC INVESTIGATION OF THE CHICO QUADRANGLE, CALIFORNIA. NO DATE.

MA-03125 Map folder with copy of the Chico 30' quadrangle, California, with geologic annotations.

GEOLOGIC INVESTIGATION OF THE MARKLEEVILLE QUADRANGLE, CALIFORNIA- NEVADA. NO DATE.

NO-12401 Envelope with two groups of sheets with listings of specimen numbers, locations, and determinations for rock specimens and thin sections collected in the Markleeville 30' quadrangle, California-Nevada. No date.

MA-03126 Map folder with two copies of the Markleeville 30' quadrangle, California, with geologic annotations.

GEOLOGIC INVESTIGATION OF THE SMARTSVILLE QUADRANGLE, BUTTE, NEVADA, PLACER, SIERRA, AND YUBA COUNTIES, CALIFORNIA. NO DATE.

NO-12402 Expandable envelope with two folders:

- Folder 1. Group of approximately 165 3x5-inch index cards with descriptions of rock specimens and thin sections collected in the Smartsville 30' quadrangle, California. No date.
- Folder 2. Two groups of sheets with listings of specimen numbers and locations for rock specimens and thin sections collected in the Smartsville 30' quadrangle, California. No date.

- MA-03127 Map folder with 10 items:
- Enlarged reproduction of a preliminary version of the Smartsville 30' quadrangle, California, sectioned and mounted on linen for field use, with annotations. Labeled "Specimen Record Map, Yuba-Nevada".
 - Eight enlarged reproductions of portions of a preliminary version of the Smartsville 30' quadrangle, California, sectioned and mounted on linen for field use, with geologic annotations.
 - Sheet with draft versions of two geologic cross-section diagrams across the Smartsville 30' quadrangle, California (see the structure section sheet of USGS Geologic atlas of the United States, Folio 18), with annotations.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 18. 1895.